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Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-49. (Cancelled)

50. (Currently Amended) An isolated nucleic acid comprising a sequence about 4,609 to about 12,571 nucleotides in length, said sequence comprising:

(a) a primer binding site selected from the group consisting of:

(a) a nucleic acid (i) a sequence having at least 95% identity to the sequence shown in SEQ ID NO:1 or SEQ ID NO:2; and

(b) a nucleic acid (ii) the sequence shown in SEQ ID NO:1 or SEQ ID NO:2; and

(c) a nucleic acid complementary to the sequence shown in SEQ ID NO:2

(b) a reverse transcriptase coding sequence positioned 3' to said primer binding site; and

(c) at least one long terminal repeat positioned 5' to said primer binding site or 3' to said reverse transcriptase coding sequence.

51. (Currently Amended) A vector ~~that can transfer a nucleic acid to a plant cell, said vector~~ comprising the nucleic acid of claim [[49 or]] 50.

52. (Currently Amended) A seed comprising the nucleic acid of claim [[49 or]] 50.

53. (Currently Amended) A plant comprising the nucleic acid of claim [[49 or]] 50.

54. (Previously Presented) The plant of claim 53, wherein said plant is soybean; maize; sugar cane; beet; tobacco; wheat; barley; poppy; rape; sunflower; alfalfa; sorghum; rose; carnation; gerbera; carrot; tomato; lettuce; chicory; pepper; melon; cabbage; oat; rye; cotton; flax; potato; pine; walnut; citrus; hemp; oak; rice; petunia; orchids; Arabidopsis; broccoli;

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cauliflower; brussel sprouts; onion; garlic; leek; squash; pumpkin; celery; pea; bean; strawberries; grapes; apples; pears; peaches; banana; palm; cocoa; cucumber; pineapple; apricot; plum; sugarbeet; lawn grasses; maple; triticale; safflower; peanut; or olive.

55. (Previously Presented) The plant of claim 53, wherein said plant is soybean.

56. (Currently Amended) The nucleic acid of claim [[49 or]] 50, further comprising gag, pol and env genes, wherein said gag gene comprises adenine-thymidine-guanidine as the start codon.

57-59. (Canceled)

60. (Currently Amended) A vector ~~that can transfer a nucleic acid to a plant cell, said vector~~ comprising the nucleic acid of claim 56.

61-68. (Canceled)

69. (Currently amended) The nucleic acid of claim [[49 or]] 50, ~~further comprising a nucleic~~ wherein said reverse transcriptase coding sequence is selected from the group consisting of:

(a) a ~~nucleic acid~~ sequence having at least 70% identity to the sequence shown in SEQ ID NO:11, ~~wherein said nucleic acid encodes a reverse transcriptase;~~

(b) ~~a nucleic acid having~~ the sequence shown in SEQ ID NO:11; and

(c) a ~~nucleic acid~~ sequence that encodes an amino acid sequence having at least 79% identity to the sequence shown in SEQ ID NO:12, ~~wherein said nucleic acid encodes a reverse transcriptase;~~

(d) a ~~nucleic acid~~ sequence that encodes [[an]] the amino acid ~~having the~~ sequence shown in SEQ ID NO:12; and

(e) ~~a nucleic acid having a sequence fully complementary to (a); (b); (c); or (d).~~

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70. (Previously Presented) A plant cell comprising the nucleic acid of claim 69.
71. (Previously Presented) A seed comprising the nucleic acid of claim 69.
72. (Currently Amended) A vector ~~that can transfer a nucleic acid to a plant cell, said vector~~ comprising the nucleic acid of claim 69.
- 73-107. (Canceled)
108. (Currently Amended) A method to transfer nucleic acid into a plant cell, comprising contacting the nucleic acid of claim [[49 or]] 50 with at least one plant cell under conditions sufficient to allow said nucleic acid to enter said cell.